



Gas Detection For Life

Application Brief

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Wastewater Gas Monitoring System – Explosion Proof Tri-Sensor Head

RKI's tri-sensor head is designed for detection of the hazardous gases typically encountered in wastewater and wet well type applications. The combination sensor head includes reliable long-life sensors for H₂S, O₂, and flammable gases, as required by NFPA 820 for sewage and wastewater treatment facilities. The sensor housings and tri-sensor head enclosure are 316 stainless steel to provide durability in harsh environments. Optional splash guards are also available for wet or dusty locations.

This unique tri-sensor design integrates 3 sensors into one unique explosion proof housing. This lowers the installation and wiring cost versus traditional single sensor enclosures. Only one conduit needs to be run to the sensors.

This product is also available in a two and four sensor version, with sensors for LEL, Oxygen, H₂S, CO, or CO₂. Catalytic bead ("pellistor") and NDIR (non-dispersive infrared) sensor versions are available for LEL detection.



The Beacon 410, four channel, wall mount controller digitally displays the gas name, readings, and status for up to 4 channels. Each channel has 3 fully configurable alarm points. Each channel also has 2 dedicated individual relays for activating external devices like alarm horns, strobes, pumps, fans or other electrical devices. A bank of 5 common relays are also standard. The Beacon 410 powers up to four remote sensors or transmitters.